DRAFT AMENDMENT of 10/677,668 Gary J. Morris

2/13/07

DRAFT AMENDMENTS TO THE CLAIMS

The following is a list of all active claims in the application along with the status of each as of the filing of this Amendment E.

1. **(Currently Amended)** An apparatus for simulating human blood pressure cycles and providing a tactile interface comprising:

   an element to generate pressurized fluid external to a pressure vessel;

   the pressurized fluid is pneumatically conveyed to inside of the pressure vessel

   ~~a pressure vessel containing the pressurized fluid~~ whereby a human can sense, through touch, pressure amplitudes within the pressure vessel; and

   a pressure control element ~~to control pressure levels within the pressure vessel; and an electronic control unit to interface with the fluid pressure control element~~ to maintain periodic, simulated diastolic and systolic blood pressure levels within the pressure vessel.

2. **(Original)** The apparatus of claim 1 wherein the fluid is a gas.

3. **(Original)** The apparatus of claim 1 wherein the fluid is a substantially segregated mixture of gas and liquid.

4. **(Original)** The apparatus of claim 1 wherein the pressure vessel containing the pressurized fluid further includes at least one moveable surface.

5. **(Canceled)**

~~an electronic control unit to interface with the fluid pressure control element~~ to maintain periodic, simulated diastolic and systolic blood pressure amplitudes within the chamber.

40. **(Original)** The apparatus of claim 39 wherein the fluid is a gas.

41. **(Original)** The apparatus of claim 39 wherein the fluid is a substantially segregated mixture of gas and liquid.

42. **(Currently Amended)** An apparatus for simulating human blood pressure and providing a tactile interface comprising:

a first elastomeric hollow bulb to pressurize fluid by manual compression of the bulb;

a second elastomeric hollow bulb pneumatically connected to the first elastomeric hollow bulb through a bi-directional flow connection such that the pressure in the second bulb is controlled by the amount of manual compression of the first bulb;

the second elastomeric hollow bulb providing a tactile interface to a human subject whereby the human subject can physically sense fluid pressure magnitudes internal to the second bulb by gripping the second bulb with at least one hand; and

a visual indicator to display indicia which specifies pressure magnitudes within the second elastomeric hollow bulb.

43. **(Previously Presented)** The apparatus in claim 42 further comprising an incompressible, non-liquid member positioned within the second elastomeric hollow